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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2015-16/

1. TESTING OF FINE AGGREGATES : **Date: 08-04-2015**

Sub: Testing of Fine Aggregates.

{Project*: Providing CC Road at Kodigehalli to TATA Nagara Connection Road at Kodigehalli Village and Construction of Culvert at Junction of 1st Main Road Handigudu Road at Bhadrappa Layout Main Road in Ward No.08, Kodigehalli Sub-Division}

Ref. : Letter No. Testing/BUB/2015-16, dated 04-04-2015

Sample supplied to lab by : Assistant Executive Engineer,
Kodigehalli Sub-Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.P.Vijaya Babu, Contractor, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	**Percentage Passing**	Specification as Per IS: 383-1970(Reaffirmed 2002) **Percentage Passing**			Remarks
		Zone-I	**Zone-II**	**Zone -III**	
04.75	96.90	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.40	60-95	75-100	85-100	
01.18	72.50	30-70	55-90	75-100	
600. mic	41.20	15-34	35-59	60-79	
300.mic	24.30	5-20	8-30	12-40	
150.mic	2.90	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.45 %	Not more than 8%
2.	Specific Gravity	----	2.58	-------

*As Furnished by Client.

The Results relate only to the items tested.

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1. TESTING OF COARSE AGGREGATES (40 mm): **Date: 08-04-2015**

Sub: Testing of Coarse Aggregates.

{Project*: Providing CC Road at Kodigehalli to TATA Nagara Connection Road at Kodigehalli Village and Construction of Culvert at Junction of 1st Main Road Handigudu Road at Bhadrappa Layout Main Road in Ward No.08, Kodigehalli Sub-Division}

Ref. : Letter No. Testing/BUB/2015-16, dated 04-04-2015

Sample supplied to lab by : Assistant Executive Engineer,
Kodigehalli Sub-Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.P.Vijaya Babu, Contractor, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	98.10	85-100	95 – 100
20mm	62.30	0 -20	30- 70
10mm	28.00	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	15.20 %	Not to exceed 25 %
2.	Crushing value	----,,----	26.40 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

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1. TEST REPORT ON CEMENT:

Date: 13-04-2015

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing CC Road at Kodigehalli to TATA Nagara Connection Road at Kodigehalli Village and Construction of Culvert at Junction of 1st Main Road Handigudu Road at Bhadrappa Layout Main Road in Ward No.08, Kodigehalli Sub-Division}

Ref. : Letter No. Testing/BUB/2015-16, dated 04-04-2015

Sample supplied to lab by : Assistant Executive Engineer,
Kodigehalli Sub-Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.P.Vijaya Babu, Contractor, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 05-04-2015 to 12-04-2015

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	**145 min**	Shall not be less than 30 min
2	Final setting time	**255 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.30 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.70 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**29.00 N/ Sq mm**	Shall not be less than 27 N/Sqmm
	d) 7 days (average of three results)	**41.20 N/Sq mm**	Shall not be less than 37N/Sqmm

*As Furnished by Client.
The Results relate only to the items tested.

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Date: 08-04-2015

BUB/CTE/2015-16/

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*: Providing CC Road at Kodigehalli to TATA Nagara Connection Road at Kodigehalli Village and Construction of Culvert at Junction of 1st Main Road Handigudu Road at Bhadrappa Layout Main Road in Ward No.08, Kodigehalli Sub-Division}

Ref. : Letter No. Testing/BUB/2015-16, dated 04-04-2015
Sample supplied to lab by : Assistant Executive Engineer,
Kodigehalli Sub-Division,
BBMP, Bangalore
Name of the Contractor/Agency*: Sri.P.Vijaya Babu, Contractor, Bangalore.

TABLE – 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm
02.	Observed Wt/m Length **Kg/m**	**0.620**	0.567
03	Proof stress/Yield stress, fy , **N/mm²**	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**20.50**	12.00
06	Ultimate Tensile Strength **N/mm²**	**622.0**	545.0

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BUB/CTE/2015-16/

DATE: 18-05-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Providing CC Road at Kodigehalli to TATA Nagara Connection Road at Kodigehalli Village and Construction of Culvert at Junction of 1st Main Road Handigudu Road at Bhadrappa Layout Main Road in Ward No.08, Kodigehalli Sub-Division}

Ref. : Letter No. Testing/BUB/2015-16, dated 16-05-2015

Sample supplied to lab by : Assistant Executive Engineer,
Kodigehalli Sub-Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.P.Vijaya Babu, Contractor, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-15	16-05-15	28	22500	520	23.11	**23.25**
	002	"	"	"	"	530	23.55	
	003	"	"	"	"	520	23.11	

*As Furnished by Client.
The Results relate only to the items tested.

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